

INTERNATIONAL SEARCH REPORT

PCT/GB2005/000466

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B25B27/06		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 B25B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 672 731 A (TAYLOR ET AL) 16 June 1987 (1987-06-16)	1,2,5,6, 8,9,12, 14-18
Y	column 3, line 49 - column 4, line 36; claims; figures	3,4,10, 13,19,22
X	US 1 383 382 A (BROCKWAY CARL P) 5 July 1921 (1921-07-05)	1,2,5,6, 8,9,12, 14-17
A	page 1, line 84 - line 96; claims; figures	7,19-21
X	US 6 637 089 B1 (ENGLISH RICHARD LEROY) 28 October 2003 (2003-10-28) abstract; figure 2	1,2,8, 12,14-17
X	US 5 519 929 A (BLECKMAN ET AL) 28 May 1996 (1996-05-28) abstract; figures	1,2,8, 12,14-18
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art *Z* document member of the same patent family		
Date of the actual completion of the international search 27 April 2005		Date of mailing of the international search report 24/05/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Majerus, H

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 384 456 A (NEIL JAMES * MOORE; GERALD SINCLAIR * LILLEY) 30 July 2003 (2003-07-30) abstract; figures 1-3	1,2,8, 12,14-18
Y	DE 10 49 797 B (KLEINBONGARTZ & KAISER) 29 January 1959 (1959-01-29) claim 1; figures	3
Y	US 3 102 333 A (THORNTON PAUL ET AL) 3 September 1963 (1963-09-03) column 2, line 66 - line 71; figures 1-4	4
Y	DE 894 830 C (MAYBACH-MOTORENBAU G.M.B.H.) 29 October 1953 (1953-10-29) figure 1	10
Y	US 5 692 437 A (TABAIN ET AL) 2 December 1997 (1997-12-02) column 4, line 65 - column 5, line 4 column 4, line 12 - line 33; figures 1,8	13,22
Y	US 1 704 442 A (PARKINSON WILLIAM J) 5 March 1929 (1929-03-05) page 1, line 85 - line 89; figures 1-3	19

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 24

Rule 6.2(a) and PCT Guidelines 5.10

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 24
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4672731	A	16-06-1987	NONE	
US 1383382	A	05-07-1921	NONE	
US 6637089	B1	09-10-2003	US 2003188410 A1 US 2004031139 A1	09-10-2003 19-02-2004
US 5519929	A	28-05-1996	NONE	
GB 2384456	A	30-07-2003	NONE	
DE 1049797	B		NONE	
US 3102333	A	03-09-1963	NONE	
DE 894830	C	29-10-1953	NONE	
US 5692437	A	02-12-1997	GB 2294006 A , B	17-04-1996
US 1704442	A	05-03-1929	NONE	